AMELIA LUMBER COMPANY, INC
P.O. BOX 727
AMELIA, VIRGINIA 23002
804-561-2155

April 20, 2016

Commonwealth of Virginia
Virginia Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060
Attn: Ms. Laura Galli, VPDES Permit Writer

Re: Amelia Lumber Company, Inc.,
Permit Reissuance
VPDES Permit No. VA0091979

Dear Ms. Galli:

Enclosed for your use is an amended copy of the VPDES Permit Application for the Amelia Lumber Company, Inc. The enclosed permit application has been revised to incorporate comments presented in your letter dated April 12, 2016.

If you should have any questions concerning the enclosed documents, please do not hesitate to contact me.

Sincerely,

William L. Scott
President

WS/

Enclosures

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F			D
1 2	13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any **permit application forms to the EPA. If you answer "yes" to any questions, you must** submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms.**

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.?** (FORM 2A)		X	
	16	17	18
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? ~~(FORM 2C)~~ FORM 2F	X		X
	22	23	24
E. Does or will this facility treat, store, or dispose of **hazardous wastes?** (FORM 3)		X	
	28	29	30
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
	34	35	36
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
	40	41	42

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.?** (FORM 2B)		X	
	19	20	21
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.?** (FORM 2D)		X	
	25	26	27
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	31	32	33
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	37	38	39
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area?** (FORM 5)		X	
	43	44	45

III. NAME OF FACILITY

C 1 SKIP: AMELIA LUMBER COMPANY, INC.

15 16 - 29 30 69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*: C 2 SCOTT, WILLIAM PRESIDENT

15 16 45

B. PHONE *(area code & no.)*: (804) 561-2155

46 48 49 51 52- 55

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX: C 3 P.O. BOX 727

15 16 45

B. CITY OR TOWN: C 4 AMELIA

15 16 40

C. STATE: VA

41 42

D. ZIP CODE: 23002

47 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: C 5 16951 LEIDIG SREET

15 16 45

B. COUNTY NAME: AMELIA

46 70

C. CITY OR TOWN: C 6 AMELIA

15 16 40

D. STATE: VA

41 42

E. ZIP CODE: 23002

47 51

F. COUNTY CODE *(if known)*: 007

52 -54

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
2421 (specify) SAWMILL & PLANING MILLS, GENERAL	2491 (specify) WOOD PRESERVING
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME: AMELIA LUMBER COMPANY, INC.

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P (specify)

D. PHONE *(area code & no.)*: A (804) 561-2155

E. STREET OR P.O. BOX: P.O. BOX 727

F. CITY OR TOWN: AMELIA

G. STATE: VA

H. ZIP CODE: 23002

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*: N VA0091979	D. PSD *(Air Emissions from Proposed Sources)*: P
B. UIC *(Underground Injection of Fluids)*: U	E. OTHER *(specify)*: (specify)
C. RCRA *(Hazardous Wastes)*: R	E. OTHER *(specify)*: (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

ACTIVITIES AT THIS FACILITY INCLUDE THE OPERATION OF A SAWMILL, A PLSANER MILL, AND THE PRESERVATION OF LUMBER PRODUCTS. WOOD PRESEVATIVES USED INCLUDE CHROMATED COPPER ARSENATE (CCA) FOR NON-RESIDENTIAL MARKET AND COPPER AZOLE (CA-C) FOR THE RESIDENTIAL MARKET.

THE WOOD PRESERVATION OPERATION IS DESIGNED AND OPERATED AS CLOSED SYSTEMS TO PRECLUDE THE DISCHARGE OF PROCESS WASTEWATER. WITH NO PROCESS WASTEWATER DISCHARGE, THE DISCHARGES AT OUTFALLS 001, 002, AND 003 REPRESENT STORMWATER RUNOFF.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
WILLIAM L. SCOTT PRESIDENT		4-21-16

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
VA0091979

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM 2F NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
001	37.00	20.00	10.00	77.00	59.00	59.00	UT to South Branch Nibbs Creek
002	37.00	19.00	59.00	77.00	59.00	56.00	UT to South Branch Nibbs Creek
003	37.00	19.00	58.00	77.00	59.00	53.00	UT to South Branch Nibbs Creek

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
NONE					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility. SEE FIGURE 1 - TOPOGRAPHIC MAP & FIGURE 2 - OUTFALL LOCATIONS.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
001	4.6 acres	66.2 acres			
002	0.25 acres	2.5 acres			
003	1.0 acre	10.6 acres			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

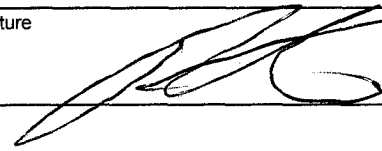
The facility stores the following materials outdoors which are potentially exposed to stormwater runoff: un-cut logs, pressure treated lumber, untreated lumber, saw dust, wood chips, and mulch. to minimize the potential for stormwater contamination, newly treated lumber remains on the drip pad(s) until drippage is confirmed to have stopped. Fertilizers, herbicides, oil conditioners, and pesticides are not applied at the facility.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	The facility uses a culvert, drainage ditches and grassy buffers to reduce solids runoff. Gravel is present over exposed ground to reduce dust generation and solids runoff in some high traffic areas.	1-U
002		1-U
003		1-U

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
William L. Scott, President		4/28/16

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Visual observation of Outfalls 001,002 and 003 performed on December 19, 2015. Results of the observations are documented and are filed with the facility Storm Water pollution Prevention Plan (SWPPP).

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

No significant leak or spill of toxic or hazardous pollutants.

EPA ID Number *(copy from Item 1 of Form 1)*
VA0091979

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ Yes (*list all such pollutants below*) ☐ No (*go to Section IX*)

Total Arsenic, Total Chromium, and Total Copper used in the wood treating process. The presence of Total Zinc is assumed to be primarily due to acid rain in contact with metal buildings. These pollutants are listed in Table 2F-3. Note that these pollutants are currently monitored as a requirement of the existing VPDES permit and the analytical test results are presented in VII - Part B of this application.

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ Yes (*list all such pollutants below*) ☐ No (*go to Section IX*)

Acute toxicity identified in Outfall 002 in 2014. Test species for the acute test procedures included C.dubia and P.promelas. Discharge represented area for treated lumber storage.

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Air, Water & Soil Laboratories, Inc.	1941 Reymet Road, Richmond, Virginia 23237	(804) 358-8295	Oil & Grease, BOD5, COD, TSS, Total Nitrogen, Total Phosphorous, Total Chromium, Total Arsenic, Total Copper, Total Zinc, Total Hardness.

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
William L. Scott, President	(804) 561-2155
C. Signature	D. Date Signed
	4-21-16

VII. Discharge information *(Continued from page 3 of Form 2F)* OUTFALL 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	9.5 mg/L (1)	N/A	9.5 mg/L (1)	9.5 mg/L (1)	2.00	Heavy Equipment
Biological Oxygen Demand (BOD5)	12.8 mg/L (1)	<2.0 mg/L (2)	12.8 mg/L(1)	<2.0 mg/L (2)	2.00	Natural Runoff
Chemical Oxygen Demand (COD)	59.0 mg/L (1)	13.1 mg/L (2)	59.0 mg/L(1)	13.1 mg/L (2)	2.00	Natural Runoff
Total Suspended Solids (TSS)	114.0 mg/L(1)	5.4 mg/L (2)	114 mg/L(1)	5.4 mg/L (2)	2.00	Natural Runoff
Total Nitrogen	0.64 mg/L (3)	1.32 mg/L (2)	0.64 mg/L(3)	1.32 mg/L (2)	2.00	Natural Runoff
Total Phosphorus	0.30 mg/L (1)	0.04 mg/L (2)	0.30 mg/L(1)	0.04 mg/L (2)	2.00	Natural Runoff
pH	Minimum (1) 6.70	Maximum (2) 6.90	Minimum(1) 6.70	Maximum (2) 6.90	2.00	Natural Runoff

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total As	<10.0 ug/L (1)	<10.0 ug/L (2)	<10.0 ug/L (1)	<10.0 ug/L (2)	2.00	Treated Lumber
Total Cr	19.2 ug/L (1)	<10.0 ug/L (2)	19.2 ug/L (1)	<10.0 ug/L (2)	2.00	Treated Lumber
Total Cu	12.8 ug/L (1)	<10.0 ug/L (2)	12.8 ug/L (1)	<10.0 ug/L (2)	2.00	Treated Lumber
Total Zn	50.0 ug/L (1)	<10.0 ug/L (2)	50.0 ug/L (1)	<10.0 ug/L (2)	2.00	Metal Buildings and Background
						(#) = Date of Storm Event

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
(1) 10/28/2015	720	0.38	>430	38 gpm	1,700 gallons
(2) 2/21/2016	180	0.48	>96	84 gpm	5,050 gallons
(3) 11/19/2015	720	1.0	>192	25 gpm	1,125 gallons

7. Provide a description of the method of flow measurement or estimate.

Flow rate estimated using approximate area of discharge and estimated velocity (Q=AV).

VII. Discharge information *(Continued from page 3 of Form 2F)* OUTFALL 002

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	<5.0 mg/L (1)	N/A	<5.0 mg/L(1)	<5.0 mg/L (1)	2.00	Heavy Equipment
Biological Oxygen Demand (BOD5)	5.0 mg/L (1)	<2.0 mg/L (2)	5.0 mg/L (1)	<2.0 mg/L (2)	2.00	Natural Runoff
Chemical Oxygen Demand (COD)	17.3 mg/L (1)	16.6 mg/L (2)	17.3 mg/L(1)	16.6 mg/L (2)	2.00	Natural Runoff
Total Suspended Solids (TSS)	18.0 mg/L (1)	3.6 mg/L (2)	18.0 mg/L(1)	3.6 mg/L (2)	2.00	Natural Runoff
Total Nitrogen	2.47 mg/L (3)	3.58 mg/L (2)	2.47 mg/L(3)	3.58 mg/L (2)	2.00	Natural Runoff
Total Phosphorus	0.10 mg/L (1)	0.08 mg/L (2)	0.10 mg/L(3)	0.08 mg/L (2)	2.00	Natural Runoff
pH	Minimum (1) 6.70	Maximum (2) 7.20	Minimum (1) 6.70	Maximum (2) 7.20	2.00	Natural Runoff

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total As	21.6 ug/L (1)	10.9 ug/L (2)	21.6 ug/L(1)	10.9 ug/L (2)	2.00	Treated Lumber
Total Cr	84.0 ug/L (1)	16.7 ug/L (2)	84.0 ug/L(1)	16.7 ug/L (2)	2.00	Treated Lumber
Total Cu	107 ug/L (1)	35.6 ug/L (2)	107 ug/L(1)	35.6 ug/L (2)	2.00	Treated Lumber
Total Zn	21.5 ug/L (1)	12.6 ug/L (2)	21.5 ug/L(1)	12.6 ug/L (2)	2.00	Metal Buildings and Background
						(#)= Date of Storm Event

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
(1) 10/28/2015	720	0.38	>430	4 gpm	60 gallons
(2) 2/21/2016	180	0.48	>96	1.0 gpm	90 gallons
(3) 11/19/2015	720	1.0	>192	4.5 gpm	100 gallons

7. Provide a description of the method of flow measurement or estimate.

Flow collected in container and timed.

VII. Discharge information *(Continued from page 3 of Form 2F)* OUTFALL 003

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	<5.0 mg/L(1)	N/A	<5.0 mg/L(1)	<5.0 mg/L (1)	2.00	Heavy Equipment
Biological Oxygen Demand (BOD5)	48.3 mg/L (1)	13.6 mg/L (2)	48.3 mg/L(1)	13.6 mg/L(2)	2.00	Natural Runoff
Chemical Oxygen Demand (COD)	122 mg/L (1)	82.8 mg/L(2)	122 mg/L (1)	82.8 mg/L(2)	2.00	Natural Runoff
Total Suspended Solids (TSS)	65.0 mg/L (1)	186.0 mg/L (2)	65.0 mg/L(1)	186.0 mg/L(2)	2.00	Natural Runoff
Total Nitrogen	1.03 mg/L (3)	2.18 mg/L(2)	1.03 mg/L(3)	2.18 mg/L(2)	2.00	Natural Runoff
Total Phosphorus	0.20 mg/L (1)	0.46 mg/L(2)	0.20 mg/L(1)	0.46 mg/L(2)	2.00	Natural Runoff
pH	Minimum (1) 6.80	Maximum (2) 7.10	Minimum(1)6.80	Maximum (2) 7.10	2.00	Natural Runoff

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total As	<10.0 ug/L(1)	<10.0 ug/L(2)	<10.0 ug/L(1)	<10.0 ug/L(2)	2.00	Treated Lumber
Total Cr	18.6 ug/L(1)	30.0 ug/L(2)	18.6 ug/L(1)	30.0 ug/L(2)	2.00	Treated Lumber
Total Cu	22.1 ug/L(1)	42.4 ug/L(2)	22.1 ug/L(1)	42.4 ug/L(2)	2.00	Treated Lumber
Total Zn	23.1 ug/L(1)	74.4 ug/L(2)	23.1 ug/L(1)	74.4 ug/L(2)	2.00	Metal Buildings and Background
						(#)= Date of Storm Event

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

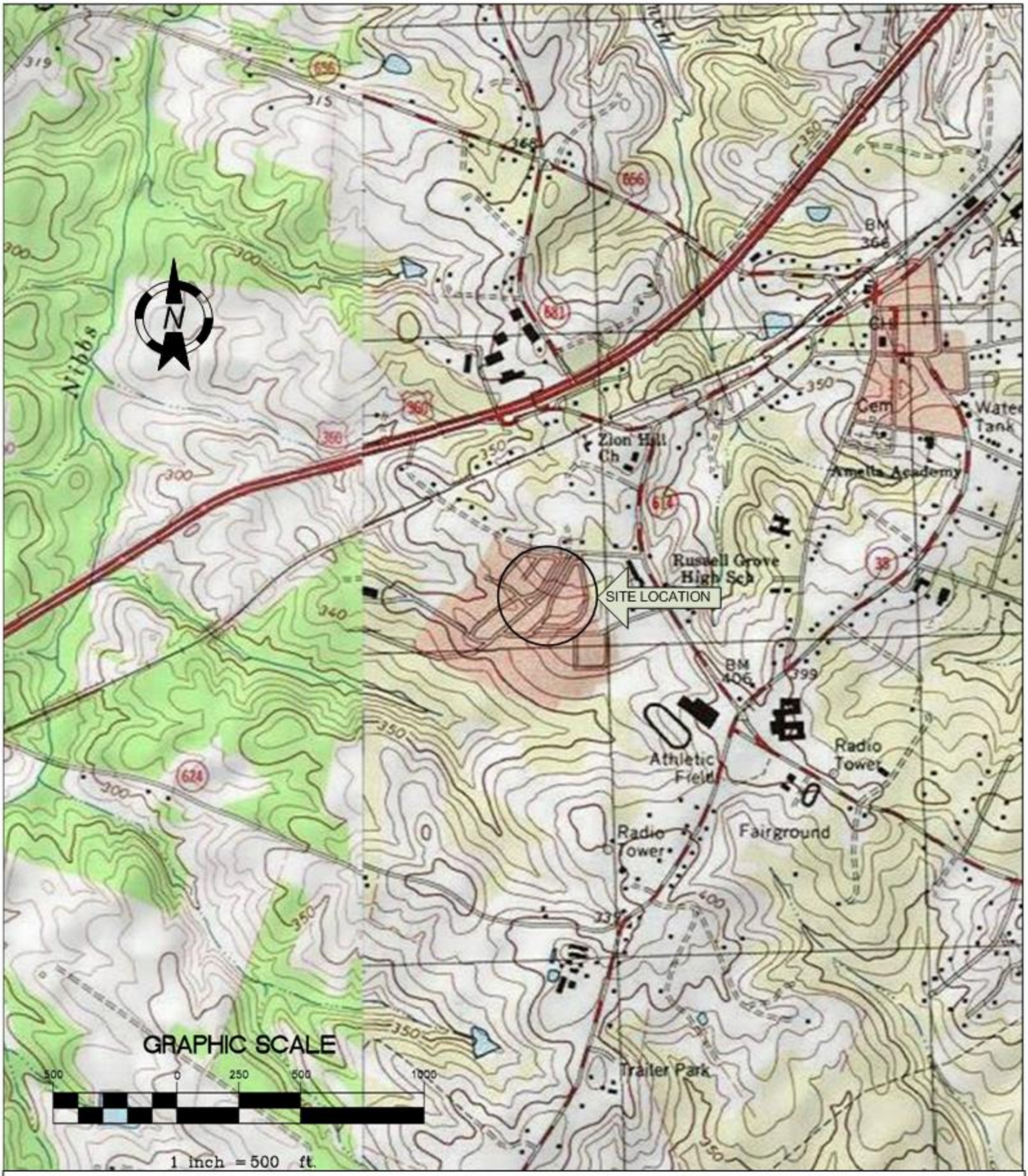
Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
(1) 10/28/2015	720	0.38	>430	2 gpm	20 gallons
(2) 2/21/2016	180	0.48	>96	2.5 gpm	40 gallons
(3) 11/19/2015	720	1.0	>192	3 gpm	45 gallons

7. Provide a description of the method of flow measurement or estimate.

Flow collected in container and timed.



AMELIA LUMBER COMPANY, INC.

FIGURE 1

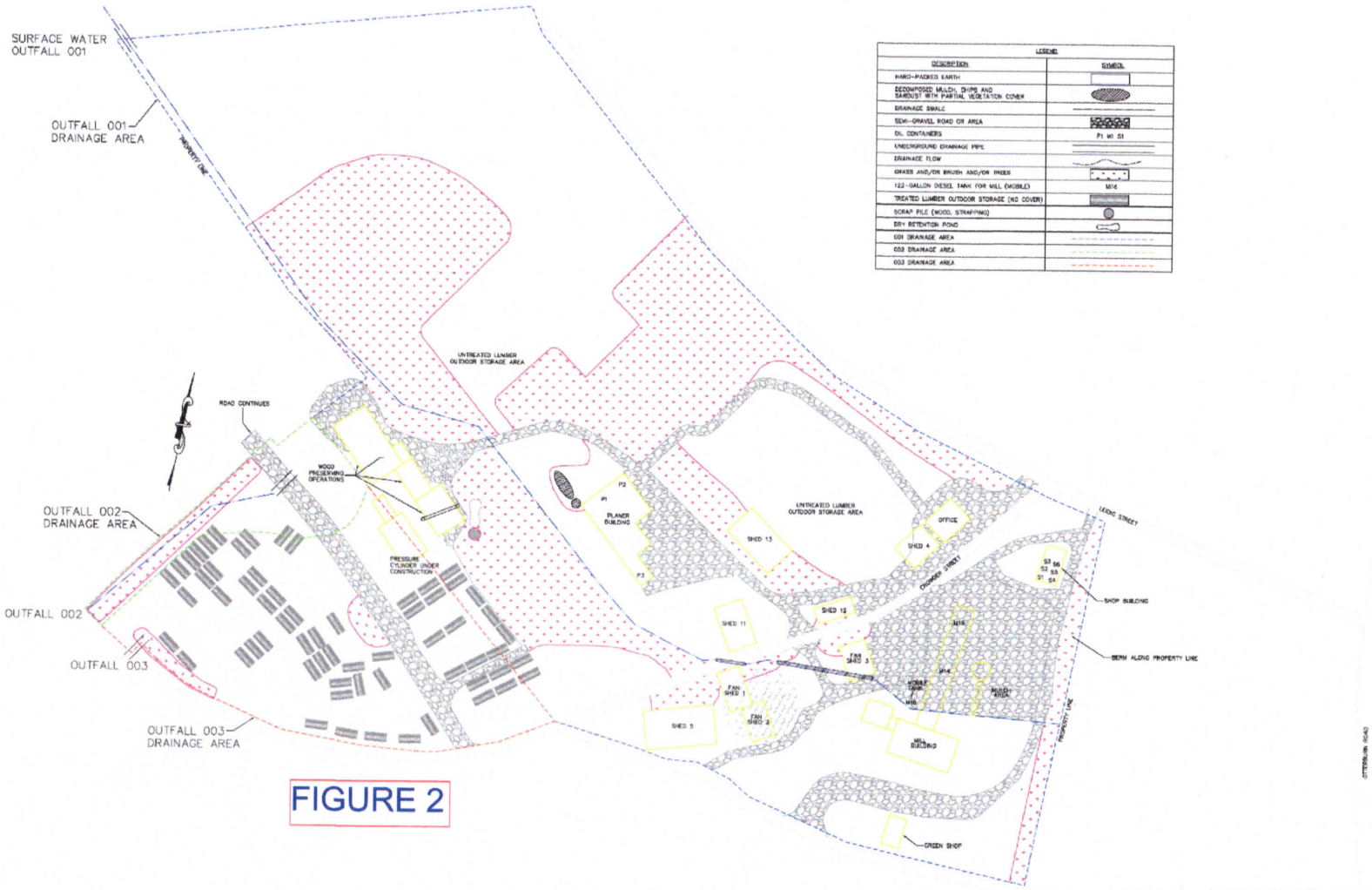

SURFACE WATER OUTFALL 001
OUTFALL 001 DRAINAGE AREA
PROPERTY LINE
UNTREATED LUMBER OUTDOOR STORAGE AREA
ROAD CONTINUES
WOOD PRESERVING OPERATIONS
OUTFALL 002 DRAINAGE AREA
PRESSURE CYLINDER UNDER CONSTRUCTION
PLANER BUILDING
P1
P2
P3
SHED 13
UNTREATED LUMBER OUTDOOR STORAGE AREA
OFFICE
SHED 4
LEDIG STREET
CHAMBER STREET
SHED 12
SHED 11
SHOP BUILDING
BERM ALONG PROPERTY LINE
OUTFALL 002
OUTFALL 003
FAN SHED 3
FAN SHED 1
FAN SHED 2
SHED 5
MILL BUILDING
GREEN SHOP
OUTFALL 003 DRAINAGE AREA
LEGEND
DESCRIPTION
SYMBOL
HARD-PACKED EARTH
DECOMPOSED MULCH, CHIPS AND SAWDUST WITH PARTIAL VEGETATION COVER
DRAINAGE SWALE
SEMI-GRAVEL ROAD OR AREA
OIL CONTAINERS
UNDERGROUND DRAINAGE PIPE
DRAINAGE FLOW
GRASS AND/OR BRUSH AND/OR TREES
122-GALLON DIESEL TANK FOR MILL (MOBILE)
TREATED LUMBER OUTDOOR STORAGE (NO COVER)
SCRAP PILE (WOOD, STRAPPING)
DRY RETENTION POND
001 DRAINAGE AREA
002 DRAINAGE AREA
003 DRAINAGE AREA

FIGURE 2

FIGURE 2

PROVIDED AS A FULL SIZE DRAWING

STORMWATER MONITORING

Amelia Lumber Company, Inc.

October 28, 2015

	Outfall 001	Outfall 002	Outfall 003
pH	6.7	6.7	6.8
Temperature ° C	16.4	15.9	16.6
Flow Duration	45 min.	15 min.	10 min.
Max Flow Rate	38 gpm	4 gpm	2 gpm
Total Flow, MG (Max.)	0.0017	0.00006	0.00002

Rainfall Duration = 12 hours

Total Rainfall = 0.38 inches

Previous Rainfall Event = 18 days

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23237 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 15J0695

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan, VA 23139	Date Received:	October 29, 2015 13:45
		Date Issued:	November 12, 2015 12:09
		Project Number:	VPDES
Submitted To:	Chris Wise	Purchase Order:	
Client Site I.D.:	Amelia Lumber		

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2015 13:45. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

Accredited in accordance with nelac Commonwealth of Virginia, DCLS Accreditation # 460021

NWBOC EDWOSB Certified

Certified SWaM Small, Women and Minority-Owned Supplier Diversity Strengthens the Commonwealth by the Virginia Department of Minority Business Enterprise

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Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 15J0695

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall 001	15J0695-01	Waste Water	10/28/2015 12:15	10/29/2015 13:45
Outfall 002	15J0695-02	Waste Water	10/28/2015 12:00	10/29/2015 13:45
Outfall 003	15J0695-03	Waste Water	10/28/2015 11:50	10/29/2015 13:45

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		Date Issued:	November 12, 2015 12:09
Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Laboratory Order ID: 15J0695

Analytical Results

Sample I.D. Outfall 001 **Laboratory Sample ID:** 15J0695-01

Date/Time Sampled: 10/28/2015 12:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	01	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	11/04/15 14:15	11/11/15 13:59	KEW
Calcium	01	EPA200.7 Rev 4.4	**11.8 mg/L**		0.0500	1	11/04/15 14:15	11/11/15 13:59	KEW
Chromium	01	EPA200.7 Rev 4.4	**0.0192 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 13:59	KEW
Copper	01	EPA200.7 Rev 4.4	**0.0128 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 13:59	KEW
Hardness	01	SM22 2340B-2011	**46.5 mg/L**		0.166	1	11/04/15 14:15	11/11/15 13:59	KEW
Magnesium	01	EPA200.7 Rev 4.4	**4.11 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 13:59	KEW
Zinc	01	EPA200.7 Rev 4.4	**0.0500 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 13:59	KEW
Wet Chemistry Analysis									
BOD	01	SM22 5210B-2011	**12.8 mg/L**		2.0	1	10/30/15 09:35	11/04/15 13:34	CWO
COD	01	SM22 5220D-2011	**59.0 mg/L**		10.0	1	11/04/15 08:45	11/04/15 08:45	LBH
Nitrate+Nitrite as N	01RE3	SM22 4500-NO3F-2011	**706 mg/L**		50.0	1	11/02/15 18:20	11/02/15 18:20	RAC
Nitrogen, Total	01	Calc.	**707 mg/L**		50.0	1	11/05/15 13:40	11/05/15 13:40	RAC
Oil and Grease	01	EPA1664A	**9.5 mg/L**		5.0	1	11/06/15 16:09	11/06/15 16:09	LBH
Phosphorus, Total	01	SM22 4500PE-2011	**0.30 mg/L**		0.02	1	10/30/15 11:54	11/02/15 07:06	CWO
TKN as N	01	EPA351.2 R2.0	**0.83 mg/L**		0.50	1	11/05/15 13:40	11/05/15 13:40	DLF
TSS	01	SM22 2540D-2011	**114 mg/L**		1.0	1	11/03/15 13:49	11/03/15 13:49	LBH

AIR WATER SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Received:	October 29, 2015 13:45
		Date Issued:	November 12, 2015 12:09
Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Laboratory Order ID: 15J0695

Analytical Results

Sample I.D. Outfall 002 **Laboratory Sample ID:** 15J0695-02

Date/Time Sampled: 10/28/2015 12:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	02	EPA200.7 Rev 4.4	**0.0216 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:04	KEW
Calcium	02	EPA200.7 Rev 4.4	**16.8 mg/L**		0.0500	1	11/04/15 14:15	11/11/15 14:04	KEW
Chromium	02	EPA200.7 Rev 4.4	**0.0840 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:04	KEW
Copper	02	EPA200.7 Rev 4.4	**0.107 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:04	KEW
Hardness	02	SM22 2340B-2011	**58.5 mg/L**		0.166	1	11/04/15 14:15	11/11/15 14:04	KEW
Magnesium	02	EPA200.7 Rev 4.4	**4.05 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:04	KEW
Zinc	02	EPA200.7 Rev 4.4	**0.0215 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:04	KEW
Wet Chemistry Analysis									
BOD	02	SM22 5210B-2011	**5.0 mg/L**		2.0	1	10/30/15 09:39	11/04/15 13:34	CWO
COD	02	SM22 5220D-2011	**17.3 mg/L**		10.0	1	11/04/15 08:45	11/04/15 08:45	LBH
Nitrate+Nitrite as N	02RE1	SM22 4500-NO3F-2011	**706 mg/L**		50.0	1	11/02/15 19:00	11/02/15 19:00	RAC
Nitrogen, Total	02	Calc.	**706 mg/L**		50.0	1	11/05/15 10:40	11/05/15 10:40	RAC
Oil and Grease	02	EPA1664A	<5.0 mg/L		5.0	1	11/06/15 16:09	11/06/15 16:09	LBH
Phosphorus, Total	02	SM22 4500PE-2011	**0.10 mg/L**		0.02	1	10/30/15 11:54	11/02/15 07:06	CWO
TKN as N	02	EPA351.2 R2.0	<0.50 mg/L		0.50	1	11/05/15 10:40	11/05/15 10:40	DLF
TSS	02	SM22 2540D-2011	**18.0 mg/L**		1.0	1	11/03/15 13:49	11/03/15 13:49	LBH

AIR WATER SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

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		Date Issued:	November 12, 2015 12:09
Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Laboratory Order ID: 15J0695

Analytical Results

Sample I.D. Outfall 003 **Laboratory Sample ID:** 15J0695-03

Date/Time Sampled: 10/28/2015 11:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	03	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	11/04/15 14:15	11/11/15 14:10	KEW
Calcium	03	EPA200.7 Rev 4.4	**6.81 mg/L**		0.0500	1	11/04/15 14:15	11/11/15 14:10	KEW
Chromium	03	EPA200.7 Rev 4.4	**0.0186 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:10	KEW
Copper	03	EPA200.7 Rev 4.4	**0.0221 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:10	KEW
Hardness	03	SM22 2340B-2011	**31.6 mg/L**		0.166	1	11/04/15 14:15	11/11/15 14:10	KEW
Magnesium	03	EPA200.7 Rev 4.4	**3.54 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:10	KEW
Zinc	03	EPA200.7 Rev 4.4	**0.0231 mg/L**		0.0100	1	11/04/15 14:15	11/11/15 14:10	KEW
Wet Chemistry Analysis									
BOD	03	SM22 5210B-2011	**48.3 mg/L**		2.0	1	10/30/15 09:50	11/04/15 13:34	CWO
COD	03	SM22 5220D-2011	**122 mg/L**		10.0	1	11/04/15 08:45	11/04/15 08:45	LBH
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	**704 mg/L**		20.0	1	11/02/15 19:03	11/02/15 19:03	RAC
Nitrogen, Total	03	Calc.	**705 mg/L**		20.0	1	11/10/15 11:40	11/10/15 11:40	CWO
Oil and Grease	03	EPA1664A	<5.0 mg/L		5.0	1	11/06/15 16:09	11/06/15 16:09	LBH
Phosphorus, Total	03	SM22 4500PE-2011	**0.20 mg/L**		0.02	1	10/30/15 11:54	11/02/15 07:06	CWO
TKN as N	03	EPA351.2 R2.0	**1.20 mg/L**		0.50	1	11/10/15 11:40	11/10/15 11:40	CWO
TSS	03	SM22 2540D-2011	**65.0 mg/L**		1.0	1	11/03/15 13:49	11/03/15 13:49	LBH

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Final Report

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		Date Issued:	November 12, 2015 12:09
Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Analytical Summary

Preparation Method:

Wet Chemistry Analysis **Preparation Method:** **[CALC]**

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods		**Preparation Method:**	**EPA200.2/R2.8**		
15J0695-01	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BYK0149	SYK0378	AK50056
15J0695-02	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BYK0149	SYK0378	AK50056
15J0695-03	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BYK0149	SYK0378	AK50056

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	300 mL / 300 mL	SM22 5210B-2011	BYJ0873	SYK0122	
15J0695-02	300 mL / 300 mL	SM22 5210B-2011	BYJ0873	SYK0122	
15J0695-03	300 mL / 300 mL	SM22 5210B-2011	BYJ0873	SYK0122	
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYJ0876	SYK0005	AG50049
15J0695-02	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYJ0876	SYK0005	AG50049
15J0695-03	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYJ0876	SYK0005	AG50049
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	100 mL / 100 mL	SM22 2540D-2011	BYJ0880	SYJ0996	
15J0695-02	300 mL / 300 mL	SM22 2540D-2011	BYJ0880	SYJ0996	
15J0695-03	200 mL / 200 mL	SM22 2540D-2011	BYJ0880	SYJ0996	
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0033	SYK0049	AK50011
15J0695-01RE1	0.250 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0033	SYK0049	AK50011
15J0695-01RE2	0.0500 mL / 10.0 mL	SM22 4500-NO3F-2011	BYK0033	SYK0049	AK50011
15J0695-01RE3	0.200 mL / 100 mL	SM22 4500-NO3F-2011	BYK0033	SYK0049	AK50011
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0035	SYK0049	AK50011
15J0695-02RE1	0.200 mL / 100 mL	SM22 4500-NO3F-2011	BYK0035	SYK0049	AK50011
15J0695-03	0.0500 mL / 10.0 mL	SM22 4500-NO3F-2011	BYK0035	SYK0049	AK50011
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
15J0695-01	2.00 mL / 2.00 mL	SM22 5220D-2011	BYK0068	SYK0090	AG50029
15J0695-02	2.00 mL / 2.00 mL	SM22 5220D-2011	BYK0068	SYK0090	AG50029
15J0695-03	2.00 mL / 2.00 mL	SM22 5220D-2011	BYK0068	SYK0090	AG50029
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0138	SYK0185	AK50028
15J0695-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0138	SYK0185	AK50028
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-01	930 mL / 930 mL	EPA1664A	BYK0143	SYK0241	
15J0695-02	1000 mL / 1000 mL	EPA1664A	BYK0143	SYK0241	
15J0695-03	975 mL / 975 mL	EPA1664A	BYK0143	SYK0241	
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15J0695-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0289	SYK0319	AK50051

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Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0149 - EPA200.2/R2.8										
Blank (BYK0149-BLK1)				Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	<0.0100 mg/L	0.0100	mg/L							
Calcium	<0.0500 mg/L	0.0500	mg/L							
Chromium	<0.0100 mg/L	0.0100	mg/L							
Copper	<0.0100 mg/L	0.0100	mg/L							
Magnesium	<0.0100 mg/L	0.0100	mg/L							
Zinc	<0.0100 mg/L	0.0100	mg/L							
LCS (BYK0149-BS1)				Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.569 mg/L	0.0100	mg/L	0.500		114	80-120			
Calcium	0.576 mg/L	0.0500	mg/L	0.500		115	80-120			
Chromium	0.567 mg/L	0.0100	mg/L	0.500		113	80-120			
Copper	0.563 mg/L	0.0100	mg/L	0.500		113	80-120			
Magnesium	0.587 mg/L	0.0100	mg/L	0.500		117	80-120			
Zinc	0.587 mg/L	0.0100	mg/L	0.500		117	80-120			
LCS Dup (BYK0149-BSD1)				Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.567 mg/L	0.0100	mg/L	0.500		113	80-120	0.243	20	
Calcium	0.577 mg/L	0.0500	mg/L	0.500		115	80-120	0.148	20	
Chromium	0.567 mg/L	0.0100	mg/L	0.500		113	80-120	0.000977	20	
Copper	0.564 mg/L	0.0100	mg/L	0.500		113	80-120	0.163	20	
Magnesium	0.586 mg/L	0.0100	mg/L	0.500		117	80-120	0.202	20	
Zinc	0.589 mg/L	0.0100	mg/L	0.500		118	80-120	0.439	20	
Matrix Spike (BYK0149-MS1)		**Source: 15J0689-12**		Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.589 mg/L	0.0100	mg/L	0.500	0.0224 mg/L	113	75-125			
Calcium	387 mg/L	0.0500	mg/L	0.500	406 mg/L	-3840	75-125			M, E
Chromium	0.536 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	107	75-125			
Copper	0.593 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	117	75-125			
Magnesium	19.1 mg/L	0.0100	mg/L	0.500	19.4 mg/L	-60.7	75-125			M, E
Zinc	0.561 mg/L	0.0100	mg/L	0.500	0.0184 mg/L	109	75-125			

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Received:	October 29, 2015 13:45
		Date Issued:	November 12, 2015 12:09
Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0149 - EPA200.2/R2.8										
Matrix Spike (BYK0149-MS2)	**Source: 15K0067-02**			Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.583 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	117	75-125			
Calcium	26.3 mg/L	0.0500	mg/L	0.500	26.0 mg/L	49.5	75-125			M, E
Chromium	0.574 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	114	75-125			
Copper	0.596 mg/L	0.0100	mg/L	0.500	0.0130 mg/L	117	75-125			
Matrix Spike (BYK0149-MS3)	**Source: 15K0067-02RE1**			Prepared: 11/04/2015 Analyzed: 11/10/2015						
Chromium	0.525 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	104	75-125			
Magnesium	4.34 mg/L	0.0100	mg/L	0.500	3.94 mg/L	80.1	75-125			
Zinc	0.648 mg/L	0.0100	mg/L	0.500	0.126 mg/L	105	75-125			
Matrix Spike Dup (BYK0149-MSD1)	**Source: 15J0689-12**			Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.620 mg/L	0.0100	mg/L	0.500	0.0224 mg/L	119	75-125	5.02	20	
Calcium	406 mg/L	0.0500	mg/L	0.500	406 mg/L	41.2	75-125	4.89	20	M, E
Chromium	0.560 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	112	75-125	4.36	20	
Copper	0.619 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	122	75-125	4.38	20	
Magnesium	20.0 mg/L	0.0100	mg/L	0.500	19.4 mg/L	118	75-125	4.58	20	E
Zinc	0.590 mg/L	0.0100	mg/L	0.500	0.0184 mg/L	114	75-125	4.91	20	
Matrix Spike Dup (BYK0149-MSD2)	**Source: 15K0067-02**			Prepared: 11/04/2015 Analyzed: 11/09/2015						
Arsenic	0.585 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	117	75-125	0.228	20	
Calcium	26.4 mg/L	0.0500	mg/L	0.500	26.0 mg/L	81.3	75-125	0.603	20	E
Chromium	0.573 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	114	75-125	0.307	20	
Copper	0.593 mg/L	0.0100	mg/L	0.500	0.0130 mg/L	116	75-125	0.574	20	
Matrix Spike Dup (BYK0149-MSD3)	**Source: 15K0067-02RE1**			Prepared: 11/04/2015 Analyzed: 11/10/2015						
Chromium	0.520 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	103	75-125	1.08	20	
Magnesium	4.34 mg/L	0.0100	mg/L	0.500	3.94 mg/L	80.2	75-125	0.0151	20	
Zinc	0.638 mg/L	0.0100	mg/L	0.500	0.126 mg/L	102	75-125	1.61	20	

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Submitted To:	Chris Wise	Project Number:	VPDES
Client Site I.D.:	Amelia Lumber	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYJ0873 - No Prep Wet Chem										
Blank (BYJ0873-BLK1)				Prepared: 10/30/2015 Analyzed: 11/04/2015						
BOD	<2.0 mg/L	2.0	mg/L							
LCS (BYJ0873-BS1)				Prepared: 10/30/2015 Analyzed: 11/04/2015						
BOD	187 mg/L	2.0	mg/L	198		94.4	84.6-115.4			
Duplicate (BYJ0873-DUP1)		**Source: 15J0695-01**		Prepared: 10/30/2015 Analyzed: 11/04/2015						
BOD	12.2 mg/L	2.0	mg/L		12.8 mg/L			4.80	20	
Batch BYJ0876 - No Prep Wet Chem										
Blank (BYJ0876-BLK1)				Prepared: 10/30/2015 Analyzed: 11/02/2015						
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							
LCS (BYJ0876-BS1)				Prepared: 10/30/2015 Analyzed: 11/02/2015						
Phosphorus, Total	0.46 mg/L	0.02	mg/L	0.500		92.6	80-120			
Matrix Spike (BYJ0876-MS1)		**Source: 15J0686-04**		Prepared: 10/30/2015 Analyzed: 11/02/2015						
Phosphorus, Total	0.56 mg/L	0.02	mg/L	0.500	0.05 mg/L	101	80-120			
Matrix Spike Dup (BYJ0876-MSD1)		**Source: 15J0686-04**		Prepared: 10/30/2015 Analyzed: 11/02/2015						
Phosphorus, Total	0.52 mg/L	0.02	mg/L	0.500	0.05 mg/L	92.6	80-120	8.16	20	
Batch BYJ0880 - No Prep Wet Chem										
Blank (BYJ0880-BLK1)				Prepared & Analyzed: 11/03/2015						
TSS	<1.0 mg/L	1.0	mg/L							

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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYJ0880 - No Prep Wet Chem										
LCS (BYJ0880-BS1)				Prepared & Analyzed: 11/03/2015						
TSS	91.0 mg/L	1.0	mg/L	100		91.0	80-120			
Duplicate (BYJ0880-DUP1)		**Source: 15J0695-01**		Prepared & Analyzed: 11/03/2015						
TSS	128 mg/L	1.0	mg/L		114 mg/L			11.6	30	
Duplicate (BYJ0880-DUP2)		**Source: 15J0695-02**		Prepared & Analyzed: 11/03/2015						
TSS	32.0 mg/L	1.0	mg/L		18.0 mg/L			56.0	30	P
Batch BYK0033 - No Prep Wet Chem										
Blank (BYK0033-BLK1)				Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							
LCS (BYK0033-BS1)				Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.52 mg/L	0.1	mg/L	2.50		101	90-110			
Matrix Spike (BYK0033-MS1)		**Source: 15J0658-04**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.96 mg/L	0.10	mg/L	2.50	<0.10 mg/L	118	90-110			M
Matrix Spike (BYK0033-MS2)		**Source: 15J0690-06**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	3.47 mg/L	0.10	mg/L	2.50	0.66 mg/L	112	90-110			M
Matrix Spike Dup (BYK0033-MSD1)		**Source: 15J0658-04**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.66 mg/L	0.10	mg/L	2.50	<0.10 mg/L	106	90-110	10.8	20	
Matrix Spike Dup (BYK0033-MSD2)		**Source: 15J0690-06**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	3.47 mg/L	0.10	mg/L	2.50	0.66 mg/L	112	90-110	0.00	20	M

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Client Site I.D.:	Amelia Lumber	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0035 - No Prep Wet Chem										
Blank (BYK0035-BLK1)				Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							
LCS (BYK0035-BS1)				Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.73 mg/L	0.1	mg/L	2.50		109	90-110			
Matrix Spike (BYK0035-MS1)		**Source: 15J0708-01**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	3.19 mg/L	0.10	mg/L	2.50	<0.10 mg/L	128	90-110			M
Matrix Spike (BYK0035-MS2)		**Source: 15J0708-03**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.97 mg/L	0.10	mg/L	2.50	<0.10 mg/L	117	90-110			M
Matrix Spike Dup (BYK0035-MSD1)		**Source: 15J0708-01**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.95 mg/L	0.10	mg/L	2.50	<0.10 mg/L	118	90-110	7.75	20	M
Matrix Spike Dup (BYK0035-MSD2)		**Source: 15J0708-03**		Prepared & Analyzed: 11/02/2015						
Nitrate+Nitrite as N	2.95 mg/L	0.10	mg/L	2.50	<0.10 mg/L	117	90-110	0.405	20	M
Batch BYK0068 - No Prep Wet Chem										
Blank (BYK0068-BLK1)				Prepared & Analyzed: 11/04/2015						
COD	<10.0 mg/L	10.0	mg/L							
LCS (BYK0068-BS1)				Prepared & Analyzed: 11/04/2015						
COD	47.4 mg/L	10.0	mg/L	50.0		94.8	80-120			
Matrix Spike (BYK0068-MS1)		**Source: 15J0665-01**		Prepared & Analyzed: 11/04/2015						
COD	409 mg/L	50.0	mg/L	250	127 mg/L	113	70-130			

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Client Site I.D.:	Amelia Lumber	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0068 - No Prep Wet Chem										
Matrix Spike Dup (BYK0068-MSD1)	**Source: 15J0665-01**			Prepared & Analyzed: 11/04/2015						
COD	391 mg/L	50.0	mg/L	250	127 mg/L	106	70-130	4.38	20	
Batch BYK0138 - No Prep Wet Chem										
Blank (BYK0138-BLK1)				Prepared & Analyzed: 11/05/2015						
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYK0138-BS1)				Prepared & Analyzed: 11/05/2015						
TKN as N	9.95 mg/L	0.50	mg/L	10.0		99.5	90-110			
LCS Dup (BYK0138-BSD1)				Prepared & Analyzed: 11/05/2015						
TKN as N	9.91 mg/L	0.50	mg/L	10.0		99.1	90-110	0.413	20	
Matrix Spike (BYK0138-MS1)	**Source: 15K0009-03**			Prepared & Analyzed: 11/05/2015						
TKN as N	12.2 mg/L	0.50	mg/L	10.0	1.82 mg/L	104	90-110			
Matrix Spike (BYK0138-MS2)	**Source: 15K0037-01**			Prepared & Analyzed: 11/05/2015						
TKN as N	10.2 mg/L	0.50	mg/L	10.0	<0.50 mg/L	96.9	90-110			
Matrix Spike Dup (BYK0138-MSD1)	**Source: 15K0009-03**			Prepared & Analyzed: 11/05/2015						
TKN as N	11.9 mg/L	0.50	mg/L	10.0	1.82 mg/L	101	90-110	2.20	20	
Matrix Spike Dup (BYK0138-MSD2)	**Source: 15K0037-01**			Prepared & Analyzed: 11/05/2015						
TKN as N	10.5 mg/L	0.50	mg/L	10.0	<0.50 mg/L	99.9	90-110	2.87	20	
Batch BYK0143 - No Prep Wet Chem										
Blank (BYK0143-BLK1)				Prepared & Analyzed: 11/06/2015						
Oil and Grease	<5.0 mg/L	5.0	mg/L							

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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0143 - No Prep Wet Chem										
LCS (BYK0143-BS1)				Prepared & Analyzed: 11/06/2015						
Oil and Grease	38.6 mg/L	5.0	mg/L	40.0		96.5	78-114			
LCS Dup (BYK0143-BSD1)				Prepared & Analyzed: 11/06/2015						
Oil and Grease	39.2 mg/L	5.0	mg/L	40.0		98.0	78-114	1.54	20	
Duplicate (BYK0143-DUP1)		**Source: 15J0739-01**		Prepared & Analyzed: 11/06/2015						
Oil and Grease	<5.0 mg/L	5.0	mg/L		<5.0 mg/L			NA	20	
Matrix Spike (BYK0143-MS1)		**Source: 15K0074-01**		Prepared & Analyzed: 11/06/2015						
Oil and Grease	38.6 mg/L	5.0	mg/L	44.4	7.1 mg/L	70.9	78-114			M
Batch BYK0289 - No Prep Wet Chem										
Blank (BYK0289-BLK1)				Prepared & Analyzed: 11/10/2015						
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYK0289-BS1)				Prepared & Analyzed: 11/10/2015						
TKN as N	9.89 mg/L	0.50	mg/L	10.0		98.9	90-110			
LCS Dup (BYK0289-BSD1)				Prepared & Analyzed: 11/10/2015						
TKN as N	10.2 mg/L	0.50	mg/L	10.0		102	90-110	3.28	20	
Matrix Spike (BYK0289-MS1)		**Source: 15K0097-05**		Prepared & Analyzed: 11/10/2015						
TKN as N	11.1 mg/L	0.50	mg/L	10.0	0.70 mg/L	104	90-110			
Matrix Spike (BYK0289-MS2)		**Source: 15J0708-03**		Prepared & Analyzed: 11/10/2015						
TKN as N	10.5 mg/L	0.50	mg/L	10.0	0.68 mg/L	98.1	90-110			

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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0289 - No Prep Wet Chem										
Matrix Spike Dup (BYK0289-MSD1)	**Source: 15K0097-05**			Prepared & Analyzed: 11/10/2015						
TKN as N	11.1 mg/L	0.50	mg/L	10.0	0.70 mg/L	104	90-110	0.280	20	
Matrix Spike Dup (BYK0289-MSD2)	**Source: 15J0708-03**			Prepared & Analyzed: 11/10/2015						
TKN as N	10.8 mg/L	0.50	mg/L	10.0	0.68 mg/L	101	90-110	2.46	20	

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Certified Analyses included in this Report

Analyte	Certifications
EPA1664A in Non-Potable Water	
Oil and Grease	VELAP,NC
EPA200.7 Rev 4.4 in Non-Potable Water	
Arsenic	VELAP,NC
Calcium	VELAP,NC
Chromium	VELAP,NC
Copper	VELAP,NC
Magnesium	VELAP,NC
Zinc	VELAP,NC
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NC
SM22 2540D-2011 in Non-Potable Water	
TSS	VELAP,NC
SM22 4500-NO3F-2011 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP
SM22 4500PE-2011 in Non-Potable Water	
Phosphorus, Total	VELAP,NC
SM22 5210B-2011 in Non-Potable Water	
BOD	VELAP,NC
SM22 5220D-2011 in Non-Potable Water	
COD	VELAP,NC

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2015
NC	North Carolina DENR	495	12/31/2015
VELAP	NELAC-Virginia Certificate #8074	460021	06/15/2016
WVDEP	West Virginia DEP	350	11/30/2015

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Summary of Data Qualifiers

E	Estimated concentration, outside calibration range
M	Matrix spike recovery is outside established acceptance limits
P	Duplicate analysis does not meet the acceptance criteria for precision
RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed
D.F.	Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

AIR WATER & SOIL LABORATORIES, INC.

1941 REYMET ROAD
RICHMOND, VIRGINIA 23237
(804) 358-8295 PHONE
(804)358-8297 FAX

Chain of Custody
Form #: D1331
Rev. 1.0
Effective: Feb 14, 2014

CHAIN OF CUSTODY

COMPANY NAME: Amelia Lumber	INVOICE TO: CEWISE, Inc.	PROJECT NAME/Quote #:
CONTACT: CEWISE, Inc.	INVOICE CONTACT:	SITE NAME: Amelia Lumber
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER: VPDES
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:

Is sample for compliance reporting? (YES) NO — Is sample from a chlorinated supply? YES (NO) — PWS I.D. #:

SAMPLER NAME (PRINT): Jeff Southall — SAMPLER SIGNATURE: — **Turn Around Time: 10 Day(s)**

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	TSS	BOD	N H2SO4 <2	P H2SO4 <2	COD H2SO4 <2	O+G HCl <2	Hardness	Zn, Cu, Cr, As
1) Outfall 001	✓					10/28/15	1215	1215	WW	7	✓	✓	✓	✓	✓	✓	✓	✓
2)																		
3) Outfall 002	✓					10/28/15	1200	1200	WW	7	✓	✓	✓	✓	✓	✓	✓	✓
4)																		
5) Outfall 003	✓					10/28/15	1150	1150	WW	7	✓	✓	✓	✓	✓	✓	✓	✓
6)																		
7)																		
8)																		
9)																		

COMMENTS

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED:	DATE / TIME 10/28/15 2350	RECEIVED:	DATE / TIME 10/29/15 1450
RELINQUISHED:	DATE / TIME 10/29/15 1345	RECEIVED: 29 OCT 2015	DATE / TIME 13:45
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package: Level I ☐ Level II ☐ Level III ☐ Level IV ☐

LAB USE ONLY — COOLER TEMP 1.0 °C

CEW 15J0695
Amelia Lumber
Recd: 10/29/2015 Due: 11/12/2015
v130325002

15J0695

D1331 AWS COC_v140214.xls

AIR WATER & SOIL Laboratories, Inc.
1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295

15J0695

CEW **15J0695**
Amelia Lumber
Recd: 10/29/2015 Due: 11/12/2015
v130325002

Sample Conditions Checklist

Opened by: (Initials) JT **Lab ID No.:**

Date Cooler Opened: 29 Oct 2015

		YES	NO	N/A
1.	How were samples received? Fed Ex ☐ UPS ☐ Courier ☐ Walk In ☑			
2.	Were custody seals used?	☐	☑	☐
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	☐	☐	☑
4.	Are the custody papers filled out completely and correctly?	☑	☐	☐
5.	Do all bottle labels agree with custody papers?	☑	☐	☐
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	☑	☐	☐
8.	If NO, are the samples just taken and received on ice?	☐	☐	☑
9.	Are all samples within holding time for requested laboratory tests?	☑	☐	☐
10.	Is a sufficient amount of sample provided to perform the tests indicated?	☑	☐	☐
11.	Are all samples in proper containers for the analyses requested?	☑	☐	☐
12.	Are all samples appropriately preserved for the analyses requested?	☑	☐	☐
13.	Are all volatile organic containers free of headspace?	☐	☐	☑
14.	Are all TOX containers free of headspace?	☐	☐	☑
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	☐	☐	☑

EPA 8011 EPA 504 EPA 8260 EPA 624

RSK-175 EPA 8015 (GRO) EPA 8021

EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

*** See preservation log for Wisconsin soil DRO.**

COMMENTS

FOR LAB USE ONLY:

CrVI preserved date/time: _____

Buffer Sol'n ID: _____ Analyst intials: _____

1N NaOH ID: _____ or 5N NaOH ID: _____

AIR WATER SOIL LABORATORIES, INC.

Sample Preservation Log

Order ID 15J0695

Date Performed: 29 Oct 2015

Analyst Performing Check: TV

P/A = Present/Absent

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608)			SVOC (8270/625)			COD					
		pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		Present	Absent		Present	Absent		12	Other			Other	
01	C	/																																		
01	D													/			/			/																
01	G																															/				
02	C	/																																		
02	D													/			/			/																
02	G																															/				
03	C	/																																		
03	D													/			/			/																
03	E																															/				

HOH ID: _____ HCL ID: _____

H2SO4 ID: _____ HNO3 ID: _____

Wisconsin soil samples must be preserved with MeCl2 within 72 hours of sample collection - NOTIFY EXTRACTION DEPARTMENT.

STORMWATER MONITORING

Amelia Lumber Company, Inc.

February 21, 2015

	Outfall 001	Outfall 002	Outfall 003
pH	6.9	7.2	7.1
Flow Duration	60 min.	20 min.	15 min.
Max Flow Rate	84 gpm	4.5 gpm	2.5 gpm
Total Flow, MG (Max.)	0.005	0.00009	0.00004

Rainfall Duration = 3 hours

Total Rainfall = 0.48 inches

Previous Rainfall Event = 4 days

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23237 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 16B0491

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan, VA 23139	Date Received:	February 22, 2016 13:36
		Date Issued:	March 7, 2016 14:05
		Project Number:	[none]
Submitted To:	Chris Wise	Purchase Order:	
Client Site I.D.:	Permit Renewal		

Enclosed are the results of analyses for samples received by the laboratory on 02/22/2016 13:36. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

Accredited in accordance with nelac Commonwealth of Virginia, DCLS Accreditation # 460021

NWBOC EDWOSB Certified

Certified SWaM Small, Women and Minority-Owned Supplier Diversity Strengthens the Commonwealth by the Virginia Department of Minority Business Enterprise

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 16B0491

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall 001	16B0491-01	Waste Water	02/21/2016 16:40 to 02/21/2016 18:20	02/22/2016 13:36
Outfall 002	16B0491-02	Waste Water	02/21/2016 16:40 to 02/21/2016 18:20	02/22/2016 13:36
Outfall 003	16B0491-03	Waste Water	02/21/2016 16:40 to 02/21/2016 18:20	02/22/2016 13:36

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Laboratory Order ID: 16B0491

Analytical Results

Sample I.D. Outfall 001 **Laboratory Sample ID:** 16B0491-01

Date/Time Sampled: 02/21/2016 18:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	01	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	03/01/16 13:34	03/03/16 16:31	CWO
Calcium	01RE1	EPA200.7 Rev 4.4	**34.9 mg/L**		1.00	20	03/01/16 13:34	03/04/16 16:30	CWO
Chromium	01	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	03/01/16 13:34	03/03/16 16:31	CWO
Copper	01	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	03/01/16 13:34	03/03/16 16:31	CWO
Hardness	01	SM22 2340B-2011	**127 mg/L**		2.54	20	03/01/16 13:34	03/04/16 16:30	CWO
Magnesium	01	EPA200.7 Rev 4.4	**9.72 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:31	CWO
Zinc	01	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	03/01/16 13:34	03/03/16 16:31	CWO
Wet Chemistry Analysis									
BOD	01	SM22 5210B-2011	<2.0 mg/L		2.0	1	02/23/16 10:27	02/23/16 10:27	BBP
COD	01	SM22 5220D-2011	**13.1 mg/L**		10.0	1	02/23/16 10:00	02/23/16 10:00	DLF
Nitrate+Nitrite as N	01	SM22 4500-NO3F-2011	**1.05 mg/L**		0.10	1	03/02/16 13:41	03/02/16 13:41	BBP
Nitrogen, Total	01	Calc.	**1.32 mg/L**		0.50	1	03/03/16 13:21	03/03/16 13:21	BBP
Phosphorus, Total	01	SM22 4500PE-2011	**0.04 mg/L**		0.02	1	03/02/16 08:30	03/02/16 08:30	LAO
TKN as N	01	EPA351.2 R2.0	<0.50 mg/L		0.50	1	03/03/16 13:21	03/03/16 13:21	BBP
TSS	01	SM22 2540D-2011	**5.4 mg/L**		1.0	1	02/23/16 08:50	02/23/16 08:50	DLF

AIR WATER SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Laboratory Order ID: 16B0491

Analytical Results

Sample I.D. Outfall 002 **Laboratory Sample ID:** 16B0491-02

Date/Time Sampled: 02/21/2016 18:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	02	EPA200.7 Rev 4.4	**0.0109 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:36	CWO
Calcium	02	EPA200.7 Rev 4.4	**13.7 mg/L**		0.0500	1	03/01/16 13:34	03/03/16 16:36	CWO
Chromium	02	EPA200.7 Rev 4.4	**0.0167 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:36	CWO
Copper	02	EPA200.7 Rev 4.4	**0.0356 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:36	CWO
Hardness	02	SM22 2340B-2011	**46.6 mg/L**		0.166	1	03/01/16 13:34	03/03/16 16:36	CWO
Magnesium	02	EPA200.7 Rev 4.4	**3.03 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:36	CWO
Zinc	02	EPA200.7 Rev 4.4	**0.0126 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:36	CWO
Wet Chemistry Analysis									
BOD	02	SM22 5210B-2011	<2.0 mg/L		2.0	1	02/23/16 10:29	02/23/16 10:29	BBP
COD	02	SM22 5220D-2011	**16.6 mg/L**		10.0	1	02/23/16 10:00	02/23/16 10:00	DLF
Nitrate+Nitrite as N	02	SM22 4500-NO3F-2011	**2.97 mg/L**		0.10	1	03/02/16 13:44	03/02/16 13:44	BBP
Nitrogen, Total	02	Calc.	**3.58 mg/L**		0.50	1	03/03/16 13:23	03/03/16 13:23	BBP
Phosphorus, Total	02	SM22 4500PE-2011	**0.08 mg/L**		0.02	1	03/02/16 08:30	03/02/16 08:30	LAO
TKN as N	02	EPA351.2 R2.0	**0.61 mg/L**		0.50	1	03/03/16 13:23	03/03/16 13:23	BBP
TSS	02	SM22 2540D-2011	**3.6 mg/L**		1.0	1	02/23/16 08:50	02/23/16 08:50	DLF

AIR WATER SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Laboratory Order ID: 16B0491

Analytical Results

Sample I.D. Outfall 003 **Laboratory Sample ID:** 16B0491-03

Date/Time Sampled: 02/21/2016 18:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 200 Series Methods									
Arsenic	03	EPA200.7 Rev 4.4	<0.0100 mg/L		0.0100	1	03/01/16 13:34	03/03/16 16:41	CWO
Calcium	03	EPA200.7 Rev 4.4	**14.2 mg/L**		0.0500	1	03/01/16 13:34	03/03/16 16:40	CWO
Chromium	03	EPA200.7 Rev 4.4	**0.0300 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:41	CWO
Copper	03	EPA200.7 Rev 4.4	**0.0424 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:40	CWO
Hardness	03	SM22 2340B-2011	**52.4 mg/L**		0.166	1	03/01/16 13:34	03/03/16 16:40	CWO
Magnesium	03	EPA200.7 Rev 4.4	**4.11 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:40	CWO
Zinc	03	EPA200.7 Rev 4.4	**0.0744 mg/L**		0.0100	1	03/01/16 13:34	03/03/16 16:41	CWO
Wet Chemistry Analysis									
BOD	03	SM22 5210B-2011	**13.6 mg/L**		2.0	1	02/23/16 10:31	02/23/16 10:31	BBP
COD	03	SM22 5220D-2011	**82.8 mg/L**		10.0	1	02/23/16 10:00	02/23/16 10:00	DLF
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	**0.73 mg/L**		0.10	1	03/02/16 13:47	03/02/16 13:47	BBP
Nitrogen, Total	03	Calc.	**2.18 mg/L**		0.50	1	03/03/16 13:25	03/03/16 13:25	BBP
Phosphorus, Total	03	SM22 4500PE-2011	**0.46 mg/L**		0.02	1	03/02/16 08:30	03/02/16 08:30	LAO
TKN as N	03	EPA351.2 R2.0	**1.45 mg/L**		0.50	1	03/03/16 13:25	03/03/16 13:25	BBP
TSS	03	SM22 2540D-2011	**186 mg/L**		1.0	1	02/23/16 08:50	02/23/16 08:50	DLF

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Analytical Summary

Preparation Method:

Wet Chemistry Analysis **Preparation Method:** **[CALC]**

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods		**Preparation Method:**	**EPA200.2/R2.8**		
16B0491-01	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZC0021	SZC0102	AC60010
16B0491-01RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZC0021	SZC0130	AC60017
16B0491-02	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZC0021	SZC0102	AC60010
16B0491-03	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZC0021	SZC0102	AC60010

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	940 mL / 940 mL	SM22 2540D-2011	BZB0522	SZB0615	
16B0491-02	1000 mL / 1000 mL	SM22 2540D-2011	BZB0522	SZB0615	
16B0491-03	100 mL / 100 mL	SM22 2540D-2011	BZB0522	SZB0615	
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	300 mL / 300 mL	SM22 5210B-2011	BZB0523	SZB0773	
16B0491-02	300 mL / 300 mL	SM22 5210B-2011	BZB0523	SZB0773	
16B0491-03	300 mL / 300 mL	SM22 5210B-2011	BZB0523	SZB0773	
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	2.00 mL / 2.00 mL	SM22 5220D-2011	BZB0534	SZB0618	AB60015
16B0491-02	2.00 mL / 2.00 mL	SM22 5220D-2011	BZB0534	SZB0618	AB60015
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-03	2.00 mL / 2.00 mL	SM22 5220D-2011	BZB0535	SZB0618	AB60015
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZC0049	SZC0052	AC60008
16B0491-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZC0049	SZC0052	AC60008
16B0491-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZC0049	SZC0052	AC60008
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZC0054	SZC0061	AJ50093
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-02	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZC0055	SZC0061	AJ50093

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Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
16B0491-03	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZC0055	SZC0061	AJ50093
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
16B0491-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZC0059	SZC0080	AC60012
16B0491-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZC0059	SZC0080	AC60012
16B0491-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZC0059	SZC0080	AC60012

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZC0021 - EPA200.2/R2.8										
Blank (BZC0021-BLK1)				Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	<0.0100 mg/L	0.0100	mg/L							
Calcium	<0.0500 mg/L	0.0500	mg/L							
Chromium	<0.0100 mg/L	0.0100	mg/L							
Copper	<0.0100 mg/L	0.0100	mg/L							
Magnesium	<0.0100 mg/L	0.0100	mg/L							
Zinc	<0.0100 mg/L	0.0100	mg/L							
LCS (BZC0021-BS1)				Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.465 mg/L	0.0100	mg/L	0.500 mg/L		92.9	80-120			
Calcium	0.474 mg/L	0.0500	mg/L	0.500 mg/L		94.8	80-120			
Chromium	0.464 mg/L	0.0100	mg/L	0.500 mg/L		92.8	80-120			
Copper	0.462 mg/L	0.0100	mg/L	0.500 mg/L		92.5	80-120			
Magnesium	0.474 mg/L	0.0100	mg/L	0.500 mg/L		94.8	80-120			
Zinc	0.463 mg/L	0.0100	mg/L	0.500 mg/L		92.6	80-120			
LCS Dup (BZC0021-BSD1)				Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.459 mg/L	0.0100	mg/L	0.500 mg/L		91.9	80-120	1.17	20	
Calcium	0.474 mg/L	0.0500	mg/L	0.500 mg/L		94.7	80-120	0.0671	20	
Chromium	0.466 mg/L	0.0100	mg/L	0.500 mg/L		93.1	80-120	0.337	20	
Copper	0.464 mg/L	0.0100	mg/L	0.500 mg/L		92.8	80-120	0.313	20	
Magnesium	0.469 mg/L	0.0100	mg/L	0.500 mg/L		93.7	80-120	1.14	20	
Zinc	0.465 mg/L	0.0100	mg/L	0.500 mg/L		93.0	80-120	0.507	20	
Matrix Spike (BZC0021-MS1)	**Source: 16B0627-05**			Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.507 mg/L	0.0100	mg/L	0.500	0.0200 mg/L	97.5	75-125			
Calcium	118 mg/L	0.0500	mg/L	0.500	120 mg/L	-283	75-125			M, E
Chromium	0.464 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	92.8	75-125			
Copper	0.481 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	94.4	75-125			
Magnesium	27.9 mg/L	0.0100	mg/L	0.500	27.8 mg/L	12.4	75-125			M, E
Zinc	0.469 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	93.7	75-125			

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Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZC0021 - EPA200.2/R2.8										
Matrix Spike (BZC0021-MS2)	**Source: 16B0643-02**			Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.477 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	95.5	75-125			
Calcium	14.2 mg/L	0.0500	mg/L	0.500	13.9 mg/L	61.7	75-125			M
Chromium	0.464 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	92.9	75-125			
Copper	0.468 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	93.6	75-125			
Magnesium	6.76 mg/L	0.0100	mg/L	0.500	6.39 mg/L	73.7	75-125			M
Zinc	0.485 mg/L	0.0100	mg/L	0.500	0.0207 mg/L	92.9	75-125			
Matrix Spike Dup (BZC0021-MSD1)	**Source: 16B0627-05**			Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.505 mg/L	0.0100	mg/L	0.500	0.0200 mg/L	97.0	75-125	0.488	20	
Calcium	120 mg/L	0.0500	mg/L	0.500	120 mg/L	-25.3	75-125	1.08	20	M, E
Chromium	0.462 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	92.3	75-125	0.540	20	
Copper	0.478 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	93.9	75-125	0.568	20	
Magnesium	27.8 mg/L	0.0100	mg/L	0.500	27.8 mg/L	-9.40	75-125	0.392	20	M, E
Zinc	0.464 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	92.8	75-125	0.959	20	
Matrix Spike Dup (BZC0021-MSD2)	**Source: 16B0643-02**			Prepared: 03/01/2016 Analyzed: 03/03/2016						
Arsenic	0.474 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	94.9	75-125	0.664	20	
Calcium	14.0 mg/L	0.0500	mg/L	0.500	13.9 mg/L	27.2	75-125	1.22	20	M
Chromium	0.460 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	91.9	75-125	1.04	20	
Copper	0.462 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	92.4	75-125	1.28	20	
Magnesium	6.68 mg/L	0.0100	mg/L	0.500	6.39 mg/L	57.5	75-125	1.21	20	M
Zinc	0.480 mg/L	0.0100	mg/L	0.500	0.0207 mg/L	91.8	75-125	1.12	20	

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZB0522 - No Prep Wet Chem										
Blank (BZB0522-BLK1)				Prepared & Analyzed: 02/23/2016						
TSS	<1.0 mg/L	1.0	mg/L							
LCS (BZB0522-BS1)				Prepared & Analyzed: 02/23/2016						
TSS	98.0 mg/L	1.0	mg/L	100 mg/L		98.0	80-120			
Duplicate (BZB0522-DUP1)		**Source: 16B0476-01**		Prepared & Analyzed: 02/23/2016						
TSS	52.0 mg/L	1.0	mg/L		49.0 mg/L			5.94	30	
Duplicate (BZB0522-DUP2)		**Source: 16B0496-05**		Prepared & Analyzed: 02/23/2016						
TSS	61.5 mg/L	1.0	mg/L		54.0 mg/L			13.0	30	
Batch BZB0523 - No Prep Wet Chem										
Blank (BZB0523-BLK1)				Prepared & Analyzed: 02/23/2016						
BOD	<2.0 mg/L	2.0	mg/L							
LCS (BZB0523-BS1)				Prepared & Analyzed: 02/23/2016						
BOD	189 mg/L	2.0	mg/L	198 mg/L		95.5	84.6-115.4			
Duplicate (BZB0523-DUP1)		**Source: 16B0491-01**		Prepared & Analyzed: 02/23/2016						
BOD	<2.0 mg/L	2.0	mg/L		<2.0 mg/L			NA	20	
Batch BZB0534 - No Prep Wet Chem										
Blank (BZB0534-BLK1)				Prepared & Analyzed: 02/23/2016						
COD	<10.0 mg/L	10.0	mg/L							

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Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Issued:	3/7/2016 14:05
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZB0534 - No Prep Wet Chem										
LCS (BZB0534-BS1)					Prepared & Analyzed: 02/23/2016					
COD	45.4 mg/L	10.0	mg/L	50.0	mg/L	90.8	80-120			
Matrix Spike (BZB0534-MS1)		**Source: 16B0296-03**			Prepared & Analyzed: 02/23/2016					
COD	59.1 mg/L	10.0	mg/L	50.0	<10.0 mg/L	118	70-130			
Matrix Spike Dup (BZB0534-MSD1)		**Source: 16B0296-03**			Prepared & Analyzed: 02/23/2016					
COD	58.1 mg/L	10.0	mg/L	50.0	<10.0 mg/L	116	70-130	1.76	20	
Batch BZB0535 - No Prep Wet Chem										
Blank (BZB0535-BLK1)					Prepared & Analyzed: 02/23/2016					
COD	<10.0 mg/L	10.0	mg/L							
LCS (BZB0535-BS1)					Prepared & Analyzed: 02/23/2016					
COD	51.6 mg/L	10.0	mg/L	50.0	mg/L	103	80-120			
Matrix Spike (BZB0535-MS1)		**Source: 16B0491-03**			Prepared & Analyzed: 02/23/2016					
COD	122 mg/L	10.0	mg/L	50.0	82.8 mg/L	78.3	70-130			
Matrix Spike Dup (BZB0535-MSD1)		**Source: 16B0491-03**			Prepared & Analyzed: 02/23/2016					
COD	120 mg/L	10.0	mg/L	50.0	82.8 mg/L	74.2	70-130	1.70	20	
Batch BZC0049 - No Prep Wet Chem										
Blank (BZC0049-BLK1)					Prepared & Analyzed: 03/02/2016					
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZC0049 - No Prep Wet Chem										
LCS (BZC0049-BS1)				Prepared & Analyzed: 03/02/2016						
Nitrate+Nitrite as N	2.54 mg/L	0.1	mg/L	2.50	mg/L	101	90-110			
Matrix Spike (BZC0049-MS1)		Source: 16B0538-01		Prepared & Analyzed: 03/02/2016						
Nitrate+Nitrite as N	3.31 mg/L	0.10	mg/L	2.50	<0.10 mg/L	132	90-110			M
Matrix Spike Dup (BZC0049-MSD1)		Source: 16B0538-01		Prepared & Analyzed: 03/02/2016						
Nitrate+Nitrite as N	3.07 mg/L	0.10	mg/L	2.50	<0.10 mg/L	123	90-110	7.37	20	M
Batch BZC0054 - No Prep Wet Chem										
Blank (BZC0054-BLK1)				Prepared & Analyzed: 03/02/2016						
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							
LCS (BZC0054-BS1)				Prepared & Analyzed: 03/02/2016						
Phosphorus, Total	0.49 mg/L	0.02	mg/L	0.500	mg/L	98.2	80-120			
Matrix Spike (BZC0054-MS1)		Source: 16B0491-01		Prepared & Analyzed: 03/02/2016						
Phosphorus, Total	0.52 mg/L	0.02	mg/L	0.500	0.04 mg/L	96.0	80-120			
Matrix Spike Dup (BZC0054-MSD1)		Source: 16B0491-01		Prepared & Analyzed: 03/02/2016						
Phosphorus, Total	0.52 mg/L	0.02	mg/L	0.500	0.04 mg/L	96.8	80-120	0.768	20	
Batch BZC0055 - No Prep Wet Chem										
Blank (BZC0055-BLK1)				Prepared & Analyzed: 03/02/2016						
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZC0055 - No Prep Wet Chem										
LCS (BZC0055-BS1)					Prepared & Analyzed: 03/02/2016					
Phosphorus, Total	0.49 mg/L	0.02	mg/L	0.500 mg/L		98.2	80-120			
Matrix Spike (BZC0055-MS1)		**Source: 16C0019-01**			Prepared & Analyzed: 03/02/2016					
Phosphorus, Total	0.72 mg/L	0.02	mg/L	0.500	0.22 mg/L	99.6	80-120			
Matrix Spike Dup (BZC0055-MSD1)		**Source: 16C0019-01**			Prepared & Analyzed: 03/02/2016					
Phosphorus, Total	0.72 mg/L	0.02	mg/L	0.500	0.22 mg/L	99.4	80-120	0.139	20	
Batch BZC0059 - No Prep Wet Chem										
Blank (BZC0059-BLK1)					Prepared & Analyzed: 03/03/2016					
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BZC0059-BS1)					Prepared & Analyzed: 03/03/2016					
TKN as N	9.98 mg/L	0.50	mg/L	10.0 mg/L		99.8	90-110			
LCS Dup (BZC0059-BSD1)					Prepared & Analyzed: 03/03/2016					
TKN as N	9.77 mg/L	0.50	mg/L	10.0 mg/L		97.7	90-110	2.11	20	
Matrix Spike (BZC0059-MS1)		**Source: 16C0009-04**			Prepared & Analyzed: 03/03/2016					
TKN as N	5.47 mg/L	0.50	mg/L	10.0	<0.50 mg/L	54.7	90-110			M
Matrix Spike (BZC0059-MS2)		**Source: 16C0009-05**			Prepared & Analyzed: 03/03/2016					
TKN as N	13.5 mg/L	0.50	mg/L	10.0	1.94 mg/L	115	90-110			M
Matrix Spike Dup (BZC0059-MSD1)		**Source: 16C0009-04**			Prepared & Analyzed: 03/03/2016					
TKN as N	11.8 mg/L	0.50	mg/L	10.0	<0.50 mg/L	118	90-110	73.1	20	M, P

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZC0059 - No Prep Wet Chem										
Matrix Spike Dup (BZC0059-MSD2)	**Source: 16C0009-05**			Prepared & Analyzed: 03/03/2016						
TKN as N	11.5 mg/L	0.50	mg/L	10.0	1.94 mg/L	95.9	90-110	15.6	20	

AIR WATER & SOIL LABORATORIES, INC.

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Certified Analyses included in this Report

Analyte	Certifications
EPA200.7 Rev 4.4 in Non-Potable Water	
Arsenic	VELAP,NC
Calcium	VELAP,NC
Chromium	VELAP,NC
Copper	VELAP,NC
Magnesium	VELAP,NC
Zinc	VELAP,NC
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NC
SM22 2540D-2011 in Non-Potable Water	
TSS	VELAP,NC
SM22 4500-NO3F-2011 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP
SM22 4500PE-2011 in Non-Potable Water	
Phosphorus, Total	VELAP,NC
SM22 5210B-2011 in Non-Potable Water	
BOD	VELAP,NC
SM22 5220D-2011 in Non-Potable Water	
COD	VELAP,NC

Code	Description	Lab Number	Expires
VELAP	NELAC-Virginia Certificate #8204	460021	06/15/2016

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Certificate of Analysis

Final Report

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Permit Renewal	Purchase Order:	

Summary of Data Qualifiers

E	Estimated concentration, outside calibration range
M	Matrix spike recovery is outside established acceptance limits
P	Duplicate analysis does not meet the acceptance criteria for precision
RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed
D.F.	Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

AIR WATER & SOIL LABORATORIES, INC.

1941 REYMET ROAD
RICHMOND, VIRGINIA 23237
(804) 358-8295 PHONE
(804)358-8297 FAX

Chain of Custody
Form #: D1331
Rev. 1.0
Effective: Feb 14, 2014

CHAIN OF CUSTODY

COMPANY NAME: C.E.WISE, Inc.	INVOICE TO: C.E.WISE	PROJECT NAME/Quote #: Amelia Lumber Co.
CONTACT: Chris Wise	INVOICE CONTACT:	SITE NAME: Permit Renewal
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:
Is sample for compliance reporting? (YES) NO	Is sample from a chlorinated supply? YES NO	PWS I.D. #:
SAMPLER NAME (PRINT): Terry Blankenship P.E.	SAMPLER SIGNATURE:	Turn Around Time: 10 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE) Cr, As, Cu, Zn (N)	Hardness (N)	Total N (S)	Total Phos (S)	BOD5	TSS	COD (S)		COMMENTS
1) Outfall 001		✓		2/21/16	1640	2/21/16	1820		WW		✓	✓	✓	✓	✓	✓	✓		pH = 6.9
2)																			
3) Outfall 002		✓		2/21/16	1640	2/21/16	1820		WW		✓	✓	✓	✓	✓	✓	✓		pH = 7.2
4)																			
5) Outfall 003		✓		2/21/16	1640	2/21/16	1820		WW		✓	✓	✓	✓	✓	✓	✓		pH = 7.1
6)																			
7)																			
8)																			
9)																			
10)																			

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
	2/22/16 1000		2/22/16 10:00
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
	2/22/16 1336		22 FEB 2016 13:36
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
Level I ☐
Level II ☐
Level III ☐
Level IV ☐

LAB USE ONLY COOLER TEMP 0.7 °C

CEW 16B0491
Amelia Lumber
Recd: 02/22/2016 Due: 02/29/2016

AIR WATER SOIL Laboratories, Inc.
1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

Sample Conditions Checklist

Opened by: (Initials) _____ **Lab ID No.:** 16B0491

Date Cooler Opened: 02/22/16

		YES	NO	N/A
1.	How were samples received? Fed Ex ☐ UPS ☐ Courier ☐ Walk In ☑			
2.	Were custody seals used?	☐	☑	☐
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	☐	☐	☑
4.	Are the custody papers filled out completely and correctly?	☑	☐	☐
5.	Do all bottle labels agree with custody papers?	☑	☐	☐
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	☑	☐	☐
8.	If NO, are the samples just taken and received on ice?	☐	☐	☑
9.	Are all samples within holding time for requested laboratory tests?	☑	☐	☐
10.	Is a sufficient amount of sample provided to perform the tests indicated?	☑	☐	☐
11.	Are all samples in proper containers for the analyses requested?	☑	☐	☐
12.	Are all samples appropriately preserved for the analyses requested?	☑	☐	☐
13.	Are all volatile organic containers free of headspace?	☐	☐	☑
14.	Are all TOX containers free of headspace?	☐	☐	☑
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	☐	☐	☑

EPA 8011 EPA 504 EPA 8260 EPA 624

RSK-175 EPA 8015 (GRO) EPA 8021

EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

*** See preservation log for Wisconsin soil DRO.**

COMMENTS

_____

_____

_____

_____

FOR LAB USE ONLY: _____

CrVI preserved date/time: _____

Buffer Sol'n ID: _____ Analyst intials: _____

1N NaOH ID: _____ or 5N NaOH ID: _____

AIR WATER SOIL LABORATORIES, INC.

Sample Preservation Log

Order ID 16B0491

Date Performed: 02/22/16

Analyst Performing Check: BC

P/A = Present/Absent

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			COD/ TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608)			SVOC (8270/625)								
		pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		Present	Absent		Present	Absent			Other			Other	
01	C	✓																																		
01	D													✓			✓			✓																
01	E													✓																						
02	C	✓																																		
02	D													✓			✓			✓																
02	E													✓																						
03	C	✓																																		
03	D													✓			✓			✓																
03	E													✓																						

NaOH ID: _____ HCL ID: _____

H2SO4 ID: _____ HNO3 ID: _____

DRO-Wisconsin soil samples must be preserved with MeCl2 within 72 hours of sample collection - NOTIFY EXTRACTION DEPARTMENT.

STORMWATER MONITORING

Amelia Lumber Company, Inc.

November 19, 2015

(Re-sample Total Nitrogen)

	Outfall 001	Outfall 002	Outfall 003
Flow Duration	45 min.	20 min.	15 min.
Max Flow Rate	25 gpm	5 gpm	3 gpm
Total Flow, MG (Max.)	0.0011	0.0001	0.00005

Rainfall Duration = 12 hours (Discharger occurred within 4 hours of rain event)

Total Rainfall = 1.0 inch

Previous Rainfall Event = 8 days

AIR WATER & SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23237 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 15K0522

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan, VA 23139	Date Received:	November 20, 2015 13:40
		Date Issued:	December 1, 2015 17:11
		Project Number:	[none]
Submitted To:	Chris Wise	Purchase Order:	
Client Site I.D.:	Stormwater		

Enclosed are the results of analyses for samples received by the laboratory on 11/20/2015 13:40. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

Accredited in accordance with nelac Commonwealth of Virginia, DCLS Accreditation # 460021

NWBOC EDWOSB Certified

Certified SWaM Small, Women and Minority-Owned Supplier Diversity Strengthens the Commonwealth by the Virginia Department of Minority Business Enterprise

AIR WATER & SOIL LABORATORIES, INC.

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		Date Issued:	December 1, 2015 17:11
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Stormwater	Purchase Order:	

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 15K0522

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall 001	15K0522-01	Waste Water	11/19/2015 10:20	11/20/2015 13:40
Outfall 002	15K0522-02	Waste Water	11/19/2015 10:05	11/20/2015 13:40
Outfall 003	15K0522-03	Waste Water	11/19/2015 10:00	11/20/2015 13:40

AIR WATER SOIL LABORATORIES, INC.

1941 Reymet Road ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name:	C.E. Wise, Inc. P.O. Box 1017 Powhatan VA, 23139	Date Received:	November 20, 2015 13:40
		Date Issued:	December 1, 2015 17:11
Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Stormwater	Purchase Order:	

Laboratory Order ID: 15K0522

Analytical Results

Sample I.D. Outfall 001 **Laboratory Sample ID:** 15K0522-01

Date/Time Sampled: 11/19/2015 10:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis									
Nitrate+Nitrite as N	01	SM22 4500-NO3F-2011	<0.10 mg/L		0.10	1	11/24/15 17:35	11/24/15 17:35	CWO
Nitrogen, Total	01	Calc.	**0.64 mg/L**		0.50	1	12/01/15 10:24	12/01/15 10:24	LBH
TKN as N	01	EPA351.2 R2.0	**0.60 mg/L**		0.50	1	12/01/15 10:24	12/01/15 10:24	LBH

Analytical Results

Sample I.D. Outfall 002 **Laboratory Sample ID:** 15K0522-02

Date/Time Sampled: 11/19/2015 10:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis									
Nitrate+Nitrite as N	02	SM22 4500-NO3F-2011	**1.63 mg/L**		0.10	1	11/24/15 17:38	11/24/15 17:38	CWO
Nitrogen, Total	02	Calc.	**2.47 mg/L**		0.50	1	12/01/15 10:26	12/01/15 10:26	LBH
TKN as N	02	EPA351.2 R2.0	**0.84 mg/L**		0.50	1	12/01/15 10:26	12/01/15 10:26	LBH

Analytical Results

Sample I.D. Outfall 003 **Laboratory Sample ID:** 15K0522-03

Date/Time Sampled: 11/19/2015 10:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis									
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	<0.10 mg/L		0.10	1	11/24/15 17:41	11/24/15 17:41	CWO
Nitrogen, Total	03	Calc.	**1.03 mg/L**		0.50	1	12/01/15 10:28	12/01/15 10:28	LBH

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Client Site I.D.:	Stormwater	Purchase Order:	

Laboratory Order ID: 15K0522

Analytical Results

Sample I.D. Outfall 003 **Laboratory Sample ID:** 15K0522-03

Date/Time Sampled: 11/19/2015 10:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis									
TKN as N	03	EPA351.2 R2.0	**1.03 mg/L**		0.50	1	12/01/15 10:28	12/01/15 10:28	LBH

Analytical Summary

Wet Chemistry Analysis **Preparation Method:** **[CALC]**

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15K0522-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0703	SYK0808	AK50133
15K0522-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0703	SYK0808	AK50133
15K0522-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYK0703	SYK0808	AK50133
Wet Chemistry Analysis		**Preparation Method:**	**No Prep Wet Chem**		
15K0522-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0771	SYL0010	AL50001
15K0522-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0771	SYL0010	AL50001
15K0522-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYK0771	SYL0010	AL50001

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Client Site I.D.:	Stormwater	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0703 - No Prep Wet Chem										
Blank (BYK0703-BLK1)				Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							
LCS (BYK0703-BS1)				Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	2.60 mg/L	0.1	mg/L	2.50		104	90-110			
Matrix Spike (BYK0703-MS1)		**Source: 15K0521-06**		Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	2.56 mg/L	0.10	mg/L	2.50	<0.10 mg/L	102	90-110			
Matrix Spike (BYK0703-MS2)		**Source: 15K0523-07**		Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	2.74 mg/L	0.10	mg/L	2.50	0.18 mg/L	103	90-110			
Matrix Spike Dup (BYK0703-MSD1)		**Source: 15K0521-06**		Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	2.64 mg/L	0.10	mg/L	2.50	<0.10 mg/L	105	90-110	3.04	20	
Matrix Spike Dup (BYK0703-MSD2)		**Source: 15K0523-07**		Prepared & Analyzed: 11/24/2015						
Nitrate+Nitrite as N	2.71 mg/L	0.10	mg/L	2.50	0.18 mg/L	101	90-110	0.953	20	
Batch BYK0771 - No Prep Wet Chem										
Blank (BYK0771-BLK1)				Prepared & Analyzed: 12/01/2015						
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYK0771-BS1)				Prepared & Analyzed: 12/01/2015						
TKN as N	10.6 mg/L	0.50	mg/L	10.0		106	90-110			
LCS Dup (BYK0771-BSD1)				Prepared & Analyzed: 12/01/2015						
TKN as N	10.6 mg/L	0.50	mg/L	10.0		106	90-110	0.406	20	

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Stormwater	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYK0771 - No Prep Wet Chem										
Matrix Spike (BYK0771-MS1)	**Source: 15K0527-02**			Prepared & Analyzed: 12/01/2015						
TKN as N	11.8 mg/L	0.50	mg/L	10.0	1.36 mg/L	105	90-110			
Matrix Spike (BYK0771-MS2)	**Source: 15K0586-01**			Prepared & Analyzed: 12/01/2015						
TKN as N	11.7 mg/L	0.50	mg/L	10.0	1.28 mg/L	104	90-110			
Matrix Spike Dup (BYK0771-MSD1)	**Source: 15K0527-02**			Prepared & Analyzed: 12/01/2015						
TKN as N	12.0 mg/L	0.50	mg/L	10.0	1.36 mg/L	107	90-110	1.79	20	
Matrix Spike Dup (BYK0771-MSD2)	**Source: 15K0586-01**			Prepared & Analyzed: 12/01/2015						
TKN as N	11.7 mg/L	0.50	mg/L	10.0	1.28 mg/L	105	90-110	0.684	20	

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Stormwater	Purchase Order:	

Certified Analyses included in this Report

Analyte	Certifications
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NC
SM22 4500-NO3F-2011 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2015
NC	North Carolina DENR	495	12/31/2015
VELAP	NELAC-Virginia Certificate #8074	460021	06/15/2016
WVDEP	West Virginia DEP	350	11/30/2015

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Submitted To:	Chris Wise	Project Number:	[none]
Client Site I.D.:	Stormwater	Purchase Order:	

Summary of Data Qualifiers

RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed
D.F.	Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

AIR WATER & SOIL LABORATORIES, INC.

1941 REYMET ROAD
RICHMOND, VIRGINIA 23237
(804) 358-8295 PHONE
(804)358-8297 FAX

Chain of Custody
Form #: D1331
Rev. 1.0
Effective: Feb 14, 2014

CHAIN OF CUSTODY

PAGE ____ OF ____

COMPANY NAME: C.E. WISE	INVOICE TO: C.E. WISE	PROJECT NAME/Quote #: Amelia Lumber
CONTACT:	INVOICE CONTACT:	SITE NAME: Storm water
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:

Is sample for compliance reporting? (YES) NO — Is sample from a chlorinated supply? YES (NO) — PWS I.D. #:

SAMPLER NAME (PRINT): Jeff Southall — SAMPLER SIGNATURE: — **Turn Around Time:** 5 **Day(s)**

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE) Total N								COMMENTS
1) Outfall 001	✓			11-19-15		10:20		1020	WW	1	✓								
2)																			
3) Outfall 002	✓			11-19-15		10:05		1005	WW	1	✓								
4)																			
5) Outfall 003	✓			11-19-15		10:00		1000	WW	1	✓								
6)																			
7)																			
8)																			
9)																			
10)																			

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

	DATE / TIME		DATE / TIME
RELINQUISHED:	11/19/15 13:15	RECEIVED:	11/19/15 1315
RELINQUISHED:	11/20/15 1340	RECEIVED:	20 NOV 2015 13.40
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
Level I ☐
Level II ☐
Level III ☐
Level IV ☐

LAB USE ONLY — **COOLER TEMP** 2.2 °C

CEW **15K0522**
Amelia Lumber
Recd: 11/20/2015 **Due: 12/01/2015**

v130325002

D1331 AWS COC_v140214.xls

AIR WATER & SOIL Laboratories, Inc.
1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

Sample Conditions Checklist

Opened by: (Initials) KLC **Lab ID No.:** 15K0522

Date Cooler Opened: 11-20-15

		YES	NO	N/A
1.	How were samples received? Fed Ex ☐ UPS ☐ Courier ☐ Walk In ☑			
2.	Were custody seals used?	☐	☑	☐
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	☐	☐	☑
4.	Are the custody papers filled out completely and correctly?	☑	☐	☐
5.	Do all bottle labels agree with custody papers?	☑	☐	☐
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	☑	☐	☐
8.	If NO, are the samples just taken and received on ice?	☐	☐	☑
9.	Are all samples within holding time for requested laboratory tests?	☑	☐	☐
10.	Is a sufficient amount of sample provided to perform the tests indicated?	☑	☐	☐
11.	Are all samples in proper containers for the analyses requested?	☑	☐	☐
12.	Are all samples appropriately preserved for the analyses requested?	☑	☐	☐
13.	Are all volatile organic containers free of headspace?	☐	☐	☑
14.	Are all TOX containers free of headspace?	☐	☐	☑
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	☐	☐	☑

EPA 8011 EPA 504 EPA 8260 EPA 624

RSK-175 EPA 8015 (GRO) EPA 8021

EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

*** See preservation log for Wisconsin soil DRO.**

COMMENTS

FOR LAB USE ONLY:

CrVI preserved date/time: _____

Buffer Sol'n ID: _____ Analyst intials: _____

1N NaOH ID: _____ or 5N NaOH ID: _____

AIR WATER SOIL LABORATORIES, INC.

Sample Preservation Log

Order ID 15K0522

Date Performed: 11-20-15

Analyst Performing Check: KLC

P/A = Present/Absent

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608)			SVOC (8270/625)								
		pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	Res.Cl as Received		Res.Cl P/A (If adjust.)	pH as Received		Final pH (If adjust.)	pH as Received		Final pH (If adjust.)
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		Present	Absent		Present	Absent			Other			Other	
-01	A													/						/																
-02	A													/						/																
-03	A													/						/																

NaOH ID: _____ HCL ID: _____

H2SO4 ID: _____ HNO3 ID: _____

DRO-Wisconsin soil samples must be preserved with MeCl2 within 72 hours of sample collection - NOTIFY EXTRACTION DEPARTMENT.

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued**: Amelia Lumber Company, Inc.

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** Yes ☐ No ☒

3. **Provide the tax map parcel number for the land where the discharge is located.** 42-1E

4. **For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction** None

5. **What is the design average effluent flow of this facility?** N/A MGD

For industrial facilities, provide the max. 30-day average production level, include units:

See Attached.

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes ☐ No ☒

If "Yes", please identify the other flow tiers (in MGD) or production levels:

Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. **Nature of operations generating wastewater**:

Stormwater Runoff

0 % of flow from domestic connections/sources

Number of private residences to be served by the treatment works: N/A

100 % of flow from non-domestic connections/sources

7. **Mode of discharge**: ☐ Continuous ☒ Intermittent ☐ Seasonal

Describe frequency and duration of intermittent or seasonal discharges:

Stormwater Runoff

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point:**

____ Permanent stream, never dry

____ Intermittent stream, usually flowing, sometimes dry

____ Ephemeral stream, wet-weather flow, often dry

____ Effluent-dependent stream, usually or always dry without effluent flow

____ Lake or pond at or below the discharge point

X Other: Drainage Ditch for Stormwater Flow

9. **Approval Date(s)**:

O & M Manual 2010 (1) **Sludge/Solids Management Plan** N/A

Have there been any changes in your operations or procedures since the above approval dates? Yes ☐ No ☒

(1) Treating Plant Operating Manual.

Item 5

The maximum 30-day average production using the various treatment processes are as follows:

CCA Treatment – 276,000 Board-feet

CA-C (Copper Azole) – 400,000 Board-feet

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in The Richmond Times Dispatch in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed: Accounting Department

Owner: Amelia Lumber Company, Inc.

Agent/Department Address: P.O. Box 727

Amelia, Virginia 23002

Agent's Telephone No.: (804) 561-2155

Printed Name: William L. Scott

Authorizing Agent – Signature:

Date: 4-21-16

VPDES Permit No. VA0091979
Facility Name: Amelia Lumber Company, Inc.